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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/516,955	12/06/2004		Bernd Gromoli	1454.1586	8626	
21171	7590	01/17/2006		EXAM	EXAMINER	
STAAS &		Y LLP	SCHEUERMANN, DAVID W			
SUITE 700 1201 NEW		VENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005				2834		
				DATE MAILED: 01/17/2006	DATE MAILED: 01/17/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
	Office Action Comments	10/516,955	GROMOLL ET AL.				
	Office Action Summary	Examiner	Art Unit				
		David W. Scheuermann	2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1)⊠	Responsive to communication(s) filed on 06 D	Pecember 2004 .					
2a)□		s action is non-final.					
3)	/ <del>-</del>						
Disposition of Claims							
4)🛛	4)⊠ Claim(s) <u>11-20</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>11-20</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[	Claim(s) are subject to restriction and/or	election requirement.					
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) 🔲 🗆	The drawing(s) filed on is/are: a)☐ accept	•					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)  The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[	☑ All b) ☐ Some * c) ☐ None of:	•					
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) M Interview Summary 5) Notice of Informal F 6) Other:	(PTO-413) Paper No(s). \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				

#### **DETAILED ACTION**

## Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the all the reference numerals cited in the specification or claims must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet. and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Philofsky, US 3271600 in view of Glauning, US 6087744. Philofsky, US 3271600 discloses:

An electrical machine comprising

A rotor rotatably mounted; (inherent)

A stator associated with said rotor in a stationary position 10, and

A cooling device, cooling at least parts of said stator, including (inherent)

A refrigeration unit having at least one cold surface 56; and

A closed line system (tubes 52 and ducts 18), thermally coupling said refrigeration unit to the parts of said

Stator to be cooled, having discrete coolant areas associated with the parts of said stator to be

Cooled, and in which a coolant is circulated by a thermosiphon effect], the coolant being heated

Or at least partially vaporized in the discrete coolant areas.

Philofsky, US 3271600 does not expressly disclose the bracketed material. Glauning, US 6087744 teaches using a thermosiphon to circulate cooling fluid for a stator to obviate the need for a separate pump, see column 3, lines 40-44. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to replace circulation pump 55 of Philofsky, US 3271600 with a thermosiphon. One of ordinary skill in the art would have been motivated to do this so that no separate pump is needed.

Re claim 12, note cooler 56 of Philofsky, US 3271600.

Re claims 13-19 note that the half coils 16 for cooling channels, which traverse the axial length of the core and are coupled to every lamination of core 10.

Re claim 20, note radial vent ducts 14.

Application/Control Number: 10/516,955

Art Unit: 2834

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David W. Scheuermann whose telephone number is (571) 272-2035. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached at (571) 272-2044. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D3

dws January 11, 2006 KARL TAMAI PRIMARY EXAMINER

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